



**McCLELLAND LABORATORIES, INC.**

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November 26, 2012

Mr. Mike Maslowski  
**Golden Predator Corp.**  
201A-170 Titanium Way  
Whitehorse, Yukon, Y1A 0G1

Dear Mike:

Enclosed is our report concerning results of agitated cyanidation (bottle roll) testing of two Grew Creek composites.

Our final invoice for the completed work will be sent under separate cover.

Thank you for allowing us to serve you and we wish you the best with moving this project forward.

Sincerely,

Jeffrey L. Olson  
Metallurgist / Project Manager

JLO/cd  
Enclosure





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**Report  
on  
Grew Creek Scoping Bottle Roll Tests  
MLI Job No. 3546  
November 26, 2012**

**for**

**Mr. Mike Maslowski  
Golden Predator Corp.  
201A-170 Titanium Way  
Whitehorse, Yukon, Y1A 0G1**

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**EXECUTIVE SUMMARY**

Composites labeled “high grade” and “low grade” from the Grew Creek project were delivered to MLI on April 5, 2011. Agitated cyanidation (bottle roll) tests were conducted on each composite at feed sizes of 80%-1.7mm and 75µm.

Bottle roll testing results indicate that the material represented by the high and low grade composites may be amenable to heap leach cyanidation treatment. Gold recoveries at an 80%-1.7mm feed size were 66.3% and 62.7%, respectively, in 96 hours of direct agitated (bottle roll) leaching.

The composites were sensitive to feed size with respect to gold recovery. Grinding to an 80%-75µm feed size increased recovery from the high and low grade composites to 83.9% and 76.5%, respectively, in 72 hours of leaching.

Cyanide consumptions ranged from 0.07 to 0.35 kg/mt ore and tended to increase with decreasing feed size. Lime demand for pH control during leaching was low for both composites at either feed size (1.7 to 2.2 kg/mt ore).



## **SAMPLE PREPARATION AND HEAD ANALYSIS**

Composites labeled “high grade” and “low grade” from the Grew Creek project were delivered to MLI on April 5, 2011. The delivered composites were stage crushed to an 80%-1.7mm feed size. Using a rotary splitter, multiple 1 kg splits were taken for bottle roll testing and triplicate 500 g splits were taken for head assays.

Head assay splits were each assayed for gold and silver content using conventional fire assay and geochemical methods. Assay splits from each composite were also selected for a cyanide shake test, an ICP scan, carbon and sulfur speciation analyses, and a “Classical Whole Rock” analysis.

Head assay results and head grade comparisons are presented in Table 1. ICP metals analysis results are presented in Table 2. The “Classical Whole Rock,” carbon and sulfur speciation analyses results are presented in Table 3.

**Table 1. - Head Assay Results and Head Grade Comparisons,  
Grew Creek Composites**

	Head Assays, g/mt ore			
	High Grade		Low Grade	
	Au	Ag	Au	Ag
Direct Assays				
Initial	4.13	5.5	1.23	1.8
Duplicate	4.13	5.8	1.44	2.2
Triplicate	4.13	2.0	1.32	<1.0
Calc'd., Bottle Roll				
1.7mm	4.33	4.1	1.18	<1.9
75µm	3.79	<4.0	1.19	<2.0
Average	4.10	4.4	1.27	1.7
Std. Deviation	0.19	1.7	0.11	0.6
Precision, %	95.4	61.4	91.3	64.7

The average gold head grades for the high and the low grade composites were 4.10 and 1.27 gAu/mt ore, respectively. Gold head grade agreement between the direct and calculated grades was generally good. The average silver head grades were 4.4 and 1.7 gAg/mt ore, respectively. Silver head grade agreement was poor. This is likely due to the relative low silver grades compared to the lower limit of the assay procedure (1.0 gAg/mt ore).



**Table 2. - ICP Metals Analyses Results, Grew Creek Composites**

Analysis	Unit	Composite	
		High Grade	Low Grade
Au <sup>1)</sup>	mg/kg	4.13	1.33
Au (CN Sol)	mg/kg	3.64	1.36
Ag	mg/kg	5.3	1.9
Al	%	4.64	5.12
As	mg/kg	107	105
Ba	mg/kg	450	520
Be	mg/kg	7.5	8.6
Bi	mg/kg	<2	2
Ca	%	1.11	0.66
Cd	mg/kg	<0.5	<0.5
Co	mg/kg	3	3
Cr	mg/kg	13	16
Cu	mg/kg	9	12
Fe	%	1.78	1.78
Ga	mg/kg	10	10
Hg	mg/kg	0.5	0.1
K	%	3.69	3.91
La	mg/kg	40	50
Mg	%	0.27	0.33
Mn	mg/kg	463	429
Mo	mg/kg	2	3
Na	%	0.25	0.24
Ni	mg/kg	8	7
P	mg/kg	360	440
Pb	mg/kg	16	19
S	%	0.58	0.53
Sb	mg/kg	5	<5
Sc	mg/kg	4	5
Sr	mg/kg	90	84
Th	mg/kg	20	20
Ti	%	0.18	0.22
Tl	mg/kg	<10	<10
U	mg/kg	<10	<10
V	mg/kg	19	25
W	mg/kg	<10	<10
Zn	mg/kg	62	65

1) Determined by triplicate direct fire assays.

Cyanide soluble gold content for the high and low grade composites were 3.64 and 1.36 gAu/mt ore, respectively. The cyanide soluble gold content accounts for 88.1% and >100%, respectively, of the average direct assay grades.



**Table 3. - “Classical Whole Rock,” Carbon and Sulfur Speciation  
 Analyses Results, Grew Creek Composites**

Analyte	Unit	Composite	
		High Grade	Low Grade
Al <sub>2</sub> O <sub>3</sub>	%	8.92	9.70
BaO	%	0.04	0.05
CaO	%	1.48	0.83
Cr <sub>2</sub> O <sub>3</sub>	%	<0.01	<0.01
Fe <sub>2</sub> O <sub>3</sub>	%	2.51	2.44
K <sub>2</sub> O	%	4.74	4.89
MgO	%	0.50	0.59
MnO	%	0.06	0.05
Na <sub>2</sub> O	%	0.30	0.29
P <sub>2</sub> O <sub>5</sub>	%	0.074	0.087
SiO <sub>2</sub>	%	76.46	75.52
SrO	%	0.01	<0.01
TiO <sub>2</sub>	%	0.30	0.38
LOI <sup>1)</sup>	%	3.23	3.32
Total	%	98.61	98.16
C (Total)	%	0.73	0.59
C (Organic)	%	0.06	0.06
C (Inorganic)	%	0.66	0.49
S (Total)	%	0.57	0.50
S (Sulfate)	%	0.01	<0.01
S (Sulfide)	%	0.55	0.45

1) Loss on Ignition

Carbon speciation results indicate that the high and low grade composites both contained 0.06% organic carbon. The high grade composite contained slightly more sulfide sulfur (0.55%) compared to the low grade composite (0.45%).



## **DIRECT AGITATED CYANIDATION TEST PROCEDURES AND RESULTS**

Direct agitated cyanidation (bottle roll) tests were conducted on each composite at 80%-1.7mm and 80%-75µm to determine gold recovery, recovery rate, reagent requirements, and sensitivity to feed size. The 75µm feeds were stage ground using a laboratory steel ball mill. Bottle roll test ore charges were mixed with water to achieve 40 weight percent solids. Natural pulp pHs were measured. Lime was added to adjust the pH of the pulps to 11.0 before adding the cyanide. Sodium cyanide, equivalent to 1.0 gNaCN/L of solution, was added to the alkaline pulps.

Leaching was conducted by rolling the pulps in bottles on the laboratory rolls for 72 (75µm) or 96 (1.7mm) hours. Rolling was suspended briefly after 2, 6, 24, 48, and 72 hours to allow the pulps to settle so samples of pregnant solution could be taken for gold and silver analysis by A.A. methods. Pregnant solution volumes were measured and sampled. Cyanide concentration and pH were determined for each pregnant solution. Make-up water, equivalent to that withdrawn, was added to the pulps. Cyanide concentrations were restored to initial levels. Lime was added, when necessary, to maintain the leaching pH at between 10.8 and 11.2. Rolling was then resumed.

After 72 (75µm) or 96 (1.7mm) hours, rolling was terminated. Final pregnant solution volumes were sampled for gold and silver analysis. Final pH and cyanide concentrations were determined. Leached residues were washed, dried, weighed, and assayed in triplicate to determine residual precious metal content.

Overall metallurgical results from the direct agitated cyanidation tests are provided in Table 4. Gold leach rate profiles are shown graphically in Figure 1. Detailed bottle roll test data are provided in the Appendix to this report.

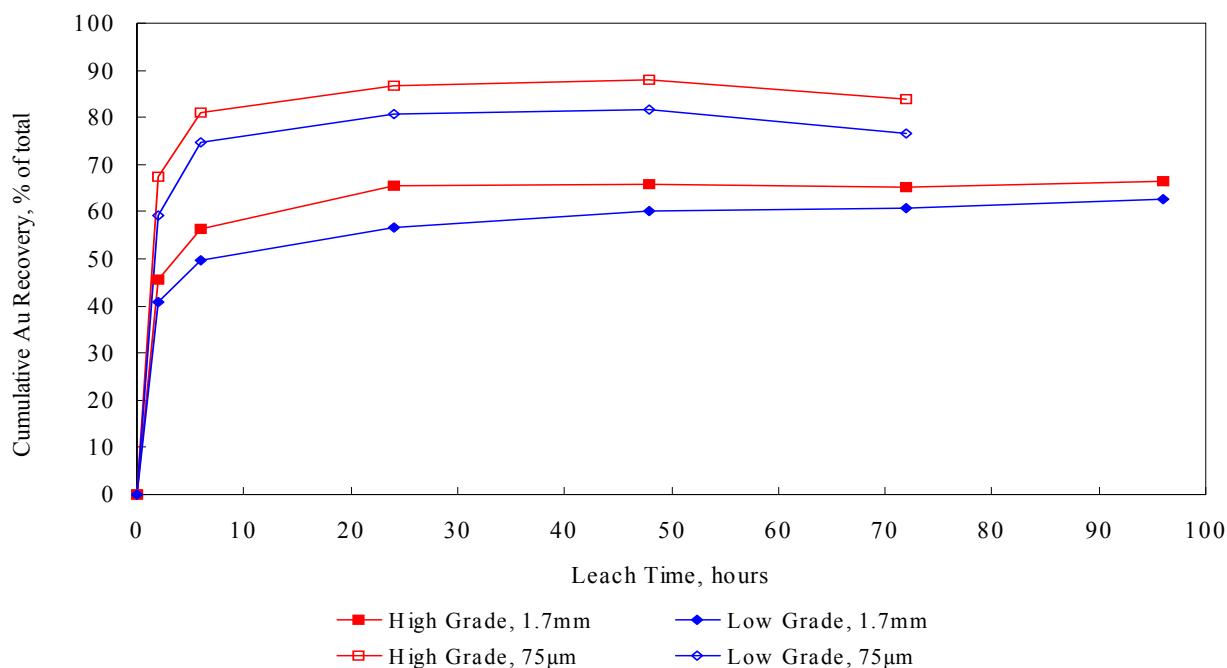


**Table 4. - Overall Metallurgical Results, Bottle Roll Tests,  
Grew Creek Composites**

Composite:	High Grade		Low Grade	
Feed Size, P <sub>80</sub> :	1.7mm	75µm	1.7mm	75µm
Metallurgical Results	(CY-1)	(CY-4)	(CY-2)	(CY-3)
Extraction: % of total Au				
in 2 hours	45.7	67.3	40.7	59.2
in 6 hours	56.4	81.0	49.7	74.6
in 24 hours	65.5	86.7	56.7	80.7
in 48 hours	65.7	88.1	60.1	81.7
in 72 hours	65.2	83.9	60.9	76.5
in 96 hours	66.3		62.7	
Extracted, gAu/mt ore	2.87	3.18	0.74	0.91
Tail Assay, gAu/mt <sup>1)</sup>	1.46	0.61	0.44	0.28
Calculated Head, gAu/mt ore	4.33	3.79	1.18	1.19
Ag: Recovery, % of total Ag	65.9	N/A	N/A	N/A
Extracted, gAg/mt ore	2.7	3.0	0.9	1.0
Tail Assay, gAg/mt ore <sup>1)</sup>	1.4	<1.0	<1.0	<1.0
Calc'd., Head Grade, gAg/mt ore	4.1	<4.0	<1.9	<2.0
NaCN Consumed, kg/mt ore	0.07	0.35	0.08	0.21
Lime Added, kg/mt ore	1.7	1.9	1.9	2.2
Final pH	11.2	10.3	11.1	10.3
Natural pH (40% solids)	7.9	7.8	8.4	7.9

1) Average of triplicate direct assay.

**Figure 1. - Gold Leach Rate Profiles, Bottle Roll Tests,  
Grew Creek Composites**





In general, the high and low grade composites were fairly amenable to cyanidation at an 80%-1.7mm feed size. Gold recoveries were 66.3% and 62.7%, respectively, in 96 hours of leaching. Grinding to an 80%-75µm feed size improved gold recovery by 17.6% and 13.8%, respectively, in 72 hours of leaching.

Gold recovery rates were rapid and gold extractions were essentially complete after 24 hours of leaching. The gold leach rate profiles indicate apparent decreases in recovery for the 75µm feeds between 48 and 72 hours of leaching. Re-analyses of the interim solution samples were inconclusive. It is unclear what may have caused these apparent decreases in recovery. It is most likely that this was caused by variability in the solution analyses. It is unlikely that "preg-robbing" occurred.

Cyanide consumptions for the 1.7mm feeds were low (0.07 and 0.08 kgNaCN/mt ore). Cyanide consumptions for the 75µm feeds were comparatively higher (0.35 and 0.21 kgNaCN/mt ore). Lime demand for pH control was low for both feed sizes and ranged from 1.7 to 2.2 kg/mt ore. Controlling pH was not particularly difficult.

## CONCLUSIONS

- Both the high and low grade Grew Creek composites were fairly amenable to direct agitated cyanidation (bottle roll) treatment at an 80%-1.7mm feed size. These results suggest good potential for heap leaching.
- Both composites were amenable to milling/cyanidation treatment.
- Cyanide and lime consumptions during leaching were low.

## RECOMMENDATIONS

We recommend that further testing, including bottle roll and column leach tests, be conducted on drill core composites or bulk samples from the Grew Creek project to confirm the amenability of the deposit to heap leach cyanidation. We also recommend further milling/cyanidation testing to optimize the feed size and leaching conditions and to evaluate the variability of the Grew Creek material.



Jeffrey L. Olson  
Metallurgist / Project Manager

JLO/cd



## **APPENDIX**



# Bottle Roll Test

Project No. 3546  
 Test No. CY-1  
 Composite High Grade  
 Feed Size 80%-1.7mm

Head Assay	gAu/mt ore	gAg/mt ore
Predicted		
Initial	4.13	5.5
Duplicate	4.13	5.8
Triplicate	4.13	2.0
Average	4.13	4.4

Ore Charge 995.0 g Final Residue Wt 971.7 g

Solution Vol. 1.4925 L

Tail Assay	gAu/mt ore	gAg/mt ore
Initial	1.33	1.2
Duplicate	1.53	1.5
Triplicate	1.52	1.4
Average	1.46	1.4

Natural pH 7.9

Solid Density Wt. % 40.0  
 Cyanide Conc. Maintained at: gNaCN/L 1.0

## Raw Data

Leach Time Hours	Solution Withdrawn			Reagents Applied		Sol. Analysis		Removed from pulp		
	mL	NaCN (g/L)	pH	NaCN (g)	Lime (g)	Au (mg/L)	Ag (mg/L)	Au (mg)	Ag (mg)	NaCN (g)
0	-----	1.00	-----	1.49	0.60	-----	-----	-----	-----	-----
2	100	1.00	10.1	0.10	0.20	1.32	1.23	0.132	0.123	0.1
6	100	1.00	10.3	0.10	0.40	1.54	1.44	0.154	0.144	0.1
24	100	1.00	10.9	0.10	0.10	1.70	1.57	0.17	0.157	0.1
48	100	0.95	10.8	0.17	0.20	1.59	1.47	0.159	0.147	0.095
72	100	1.00	11.0	0.10	0.15	1.47	1.36	0.147	0.136	0.1
96	-----	1.00	11.2	-----	-----	1.40	1.30	-----	-----	-----

## Metallurgical Results

Cumulative Au Extraction			
Leach Time Hours	mg	gAu/mt ore	% of total
0		0.000	0.0
2	1.970	1.980	45.7
6	2.430	2.443	56.4
24	2.823	2.837	65.5
48	2.829	2.843	65.7
72	2.809	2.823	65.2
96	2.852	2.87	66.3

Cumulative Ag Extraction		
mg	gAg/mt ore	% of total
	0.000	0.0
1.836	1.845	45.0
2.272	2.284	55.7
2.610	2.623	64.0
2.618	2.631	64.2
2.601	2.614	63.8
2.647	2.7	65.9

Reagent Requirements Cumulative kg/mt ore	
Cyanide Consumed	Lime Added
	0.6
0.00	0.8
0.00	1.2
0.00	1.3
0.07	1.5
0.07	1.7
0.07	1.7

	Au	% of Total
Extracted g/mt ore	2.87	66.3
Tail assay, g/mt	1.46	
Calculated Head g/mt ore	4.33	
NaCN Consumed, kg/mt ore	0.07	
Lime Added, kg/mt ore	1.7	

Ag	% of Total
2.7	65.9
1.4	
4.1	



# Bottle Roll Test

Project No. 3546  
 Test No. CY-2  
 Composite Low Grade  
 Feed Size 80%-1.7mm

Head Assay	gAu/mt ore	gAg/mt ore
Predicted		
Initial	1.24	1.8
Duplicate	1.44	2.2
Triplicate	1.32	<1.0
Average	1.33	1.7

Ore Charge 1000.0 g Final Residue Wt 971.2 g

Solution Vol. 1.5000 L

Tail Assay	gAu/mt ore	gAg/mt ore
Initial	0.38	<1.0
Duplicate	0.44	<1.0
Triplicate	0.51	<1.0
Average	0.44	<1.0

Natural pH 8.4

Solid Density Wt. % 40.0  
 Cyanide Conc. Maintained at: gNaCN/L 1.0

## Raw Data

Leach Time Hours	Solution Withdrawn			Reagents Applied		Sol. Analysis		Removed from pulp		
	mL	NaCN (g/L)	pH	NaCN (g)	Lime (g)	Au (mg/L)	Ag (mg/L)	Au (mg)	Ag (mg)	NaCN (g)
0	-----	1.00	-----	1.50	1.00	-----	-----	-----	-----	-----
2	100	1.00	10.4	0.10	0.30	0.32	0.37	0.032	0.037	0.1
6	100	1.00	10.7	0.10	0.10	0.37	0.41	0.037	0.041	0.1
24	100	0.95	10.8	0.17	0.10	0.40	0.45	0.04	0.045	0.095
48	100	1.00	10.6	0.10	0.30	0.40	0.44	0.04	0.044	0.1
72	100	1.00	11.1	0.10	0.10	0.38	0.43	0.038	0.043	0.1
96	-----	1.00	11.1	-----	-----	0.37	0.43	-----	-----	-----

## Metallurgical Results

Cumulative Au Extraction			
Leach Time Hours	mg	gAu/mt ore	% of total
0		0.000	0.0
2	0.480	0.480	40.7
6	0.587	0.587	49.7
24	0.669	0.669	56.7
48	0.709	0.709	60.1
72	0.719	0.719	60.9
96	0.742	0.74	62.7

Cumulative Ag Extraction		
mg	gAg/mt ore	% of total
	0.000	0.0
0.555	0.555	
0.652	0.652	
0.753	0.753	
0.783	0.783	
0.812	0.812	
0.855	0.9	N/A

Reagent Requirements Cumulative kg/mt ore	
Cyanide Consumed	Lime Added
	1.0
0.00	1.3
0.00	1.4
0.08	1.5
0.08	1.8
0.08	1.9
0.08	1.9

	Au	% of Total
Extracted g/mt ore	0.74	62.7
Tail assay, g/mt	0.44	
Calculated Head g/mt ore	1.18	
NaCN Consumed, kg/mt ore	0.08	
Lime Added, kg/mt ore	1.9	

Ag	% of Total
0.9	N/A
<1.0	
<1.9	



# Bottle Roll Test

Project No. 3546  
 Test No. CY-3  
 Composite Low Grade  
 Feed Size 80%-75µm

Head Assay	gAu/mt ore	gAg/mt ore
Predicted		
Initial	1.24	1.8
Duplicate	1.44	2.2
Triplicate	1.32	<1.0
Average	1.33	1.7

Ore Charge 982.9 g Final Residue Wt 942.3 g

Solution Vol. 1.4744 L

Tail Assay	gAu/mt ore	gAg/mt ore
Initial	0.28	<1.0
Duplicate	0.28	<1.0
Triplicate	0.27	<1.0
Average	0.28	<1.0

Natural pH 7.9

Solid Density Wt. % 40.0  
 Cyanide Conc. Maintained at: gNaCN/L 1.0

## Raw Data

Leach Time Hours	Solution Withdrawn			Reagents Applied		Sol. Analysis		Removed from pulp		
	mL	NaCN (g/L)	pH	NaCN (g)	Lime (g)	Au (mg/L)	Ag (mg/L)	Au (mg)	Ag (mg)	NaCN (g)
0	-----	1.00	-----	-----	1.47	1.90	-----	-----	-----	-----
2	100	1.00	10.9	1.8	0.10	0.00	0.47	0.52	0.047	0.052
6	100	1.00	10.9	1.6	0.10	0.00	0.56	0.57	0.056	0.057
24	100	1.00	10.7	7.3	0.10	0.10	0.57	0.59	0.057	0.059
48	100	0.95	10.7	8.2	0.16	0.20	0.54	0.57	0.054	0.057
72	-----	0.90	10.3	8.7	-----	-----	0.46	0.52	-----	-----

## Metallurgical Results

Cumulative Au Extraction			
Leach Time Hours	mg	gAu/mt ore	% of total
0		0.000	0.0
2	0.693	0.705	59.2
6	0.873	0.888	74.6
24	0.943	0.960	80.7
48	0.956	0.973	81.7
72	0.892	0.91	76.5

Cumulative Ag Extraction		
mg	gAg/mt ore	% of total
	0.000	0.0
0.767	0.780	
0.892	0.908	
0.979	0.996	
1.008	1.026	
0.992	1.0	N/A

Reagent Requirements Cumulative kg/mt ore	
Cyanide Consumed	Lime Added
	1.9
0.00	1.9
0.00	1.9
0.00	2.0
0.07	2.2
0.21	2.2

	Au	% of Total
Extracted g/mt ore	0.91	76.5
Tail assay, g/mt	0.28	
Calculated Head g/mt ore	1.19	
NaCN Consumed, kg/mt ore	0.21	
Lime Added, kg/mt ore	2.2	

Ag	% of Total
1.0	N/A
<1.0	
<2.0	



# Bottle Roll Test

Project No. 3546  
 Test No. CY-4  
 Composite High Grade  
 Feed Size 80%-75µm

Head Assay	gAu/mt ore	gAg/mt ore
Predicted		
Initial	4.13	5.5
Duplicate	4.13	5.8
Triplicate	4.13	2.0
Average	4.13	4.4

Ore Charge 964.7 g Final Residue Wt 912.7 g

Solution Vol. 1.4471 L

Tail Assay	gAu/mt ore	gAg/mt ore
Initial	0.62	<1.0
Duplicate	0.60	<1.0
Triplicate	0.61	<1.0
Average	0.61	<1.0

Natural pH 7.8

Solid Density Wt. % 40.0  
 Cyanide Conc. Maintained at: gNaCN/L 1.0

## Raw Data

Leach Time Hours	Solution Withdrawn			Reagents Applied		Sol. Analysis		Removed from pulp		
	mL	NaCN (g/L)	pH	NaCN (g)	Lime (g)	Au (mg/L)	Ag (mg/L)	Au (mg)	Ag (mg)	NaCN (g)
0	-----	1.00	-----	-----	1.45	1.50	-----	-----	-----	-----
2	100	0.80	10.8	2.7	0.37	0.10	1.70	1.59	0.17	0.159
6	100	1.10	10.9	1.7	0.00	0.10	1.93	1.72	0.193	0.172
24	100	1.05	10.9	7.2	0.04	0.10	1.94	1.70	0.194	0.17
48	100	1.00	11.0	8.2	0.10	0.00	1.84	1.64	0.184	0.164
72	-----	0.85	10.3	9.0	-----	-----	1.61	1.51	-----	-----

## Metallurgical Results

Cumulative Au Extraction			
Leach Time Hours	mg	gAu/mt ore	% of total
0		0.000	0.0
2	2.460	2.550	67.3
6	2.963	3.071	81.0
24	3.170	3.286	86.7
48	3.220	3.337	88.1
72	3.071	3.18	83.9

Cumulative Ag Extraction		
mg	gAg/mt ore	% of total
	0.000	0.0
2.301	2.385	
2.648	2.745	
2.791	2.893	
2.874	2.979	
2.850	3.0	N/A

Reagent Requirements Cumulative kg/mt ore	
Cyanide Consumed	Lime Added
	1.6
0.30	1.7
0.15	1.8
0.11	1.9
0.12	1.9
0.35	1.9

	Au	% of Total
Extracted g/mt ore	3.18	83.9
Tail assay, g/mt	0.61	
Calculated Head g/mt ore	3.79	
NaCN Consumed, kg/mt ore	0.35	
Lime Added, kg/mt ore	1.9	

Ag	% of Total
3.0	N/A
<1.0	
<4.0	